Dicamba PC Code: 029801	Dietary Exposure Assessment	DP Barcode: D317702

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OPP OFFICIAL RECORD
HEALTH EFFECTS DIVISION
SCIENTIFIC DATA REVIEWS
EPA SERIES 361

**OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES**

MEMORANDUM

DATE: September 13, 2005

SUBJECT: **Dicamba:** Acute and Chronic Dietary Exposure Assessments for the
              Reregistration Eligibility Decision - Phase 1

              PC Code: 029801
              DP Barcode: D317702

REVIEWER: Christine L. Olinger, Chemist
              Reregistration Branch 1
              Health Effects Division (7509C)

THROUGH: David Soderberg, Chemist
              Susan Stanton, Environmental Scientist

                  and

              Whang Phang, Ph.D., Branch Senior Scientist
              Reregistration Branch 1
              Health Effects Division (7509C)

TO: Kendra Tyler, CRM
              Reregistration Branch 1
              Special Review and Reregistration Division (7508C)

Executive Summary

Acute and chronic dietary risk assessments were conducted using the Dietary Exposure
Evaluation Model (DEEM-FCID™, Version 2.03), which uses food consumption data from the
USDA's Continuing Surveys of Food Intakes by Individuals (CSFII) from 1994-1996 and 1998.
The analyses were performed to support the reregistration eligibility decision - Phase I.

Assessments were conducted for food alone and food plus drinking water from surface water and
ground water sources. It was assumed that all commodities were treated and that residues were

Page 1 of 47

SEP 2 3 2005

Dicamba	Dietary Exposure Assessment	DP Barcode: D317702
PC Code: 029801		

at the established or reassessed tolerance level. Tolerances range from 0.2 for cattle fat to 25 ppm for cattle kidney. Drinking water concentrations were estimated from PRZM-EXAMS modeling of surface water and ground water monitoring studies.

Estimated exposures to dicamba for all population sub-groups are well below the level of concern. The most highly exposed subgroup for both acute and chronic exposure is children, aged 1-2. At the 95th percentile of exposure, acute exposures are at 5.4 and 7.6% of the acute Population Adjusted Dose (aPAD) for food and food plus water, respectively. Chronic exposures are at 6.5 and 6.6% of the chronic Population Adjusted Dose (cPAD) for food and food plus water, respectively for children aged 1-2. Using a screening level value for groundwater, the chronic exposure for this subgroup is slightly higher, at 6.8% of the cPAD. When considering acute exposure in food and water combined, the most highly exposed subgroup is infants with 11% of the aPAD consumed.

Actual exposure is likely to be considerably lower. These assessments assume all commodities are at tolerance levels, but residues in most field trials are lower. The assessments also assume all crops are treated, but a screening level usage analysis (M. Kaul, 9/20/04) indicate that the percent crop treated for most commodities is less than 20 %.

I.   Introduction

Dietary risk assessment incorporates both exposure and toxicity of a given pesticide. For acute and chronic assessments, the risk is expressed as a percentage of a maximum acceptable dose (i.e., the dose which HED has concluded will result in no unreasonable adverse health effects). This dose is referred to as the population adjusted dose (PAD). The PAD is equivalent to the Reference Dose (RfD) divided by the special FQPA Safety Factor.

For acute and non-cancer chronic exposures, HED is concerned when estimated dietary risk exceeds 100% of the PAD. References which discuss the acute and chronic risk assessments in more detail are available on the EPA/pesticides web site: "Available Information on Assessing Exposure from Pesticides, A User's Guide," 6/21/2000, web link: http://www.epa.gov/fedrgstr/EPA-PEST/2000/July/Day-12/6061.pdf ; or see SOP 99.6 (8/20/99).

The most recent dietary risk assessment for dicamba was conducted by Jennifer Tyler (11/26/01, DP Barcode D276549).

II.   Residue Information

Dicamba (2-methoxy-3,6-dichlorobenzoic acid) is a selective benzoic acid herbicide registered for the control of weeds prior to or before their emergence. Different forms of dicamba (acid and salt) have registered uses on several food/feed crops including asparagus, barley, corn (field and

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

pop), grasses grown in pasture and rangeland, oats, proso millet, rye, sorghum, soybeans, sugarcane, and wheat. Application rates range from 0.5 to 2.8 lb ae/A.

The residues of concern in barley, corn, cotton, grasses, oat, proso millet, sorghum, sugarcane, and wheat are dicamba and its 3,6-dichloro-5-hydroxybenzoic acid (5-OH dicamba) metabolite: these are the residues currently regulated in 40 CFR §180.227 (a)(1). In asparagus, the residues of concern are dicamba and its 3,6-dichloro-2-hydroxybenzoic acid metabolite [40 CFR §180.227 (a)(2)]; the metabolite 3,6-dichloro-2-hydroxybenzoic acid is also referred to as 3,6-dichlorosalicylic acid (DCSA). The residues of concern in/on aspirated grain fractions and soybeans are dicamba, 5-OH dicamba, and DCSA [40 CFR §180.227 (a)(3)]. Dicamba and the degradate DCSA are included in the drinking water assessment.

<u>Residue Data used for Acute and Chronic Assessments</u>

Tolerance-level residues and 100% crop treated were assumed for all crops in this assessment. If sufficient data were available to reassess tolerances, then the reassessed values were used. The established values were used for most commodities with the exception of the livestock commodities and sorghum (C. Olinger, D317703, in review). All processing factors were assumed to be 1, though the available processing data suggest that residue concentrations are reduced upon processing. A summary of the residue data used may be found in Table 1.

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

Table 1. Tolerances Used in Dietary Analyses		
Commodity	Existing Tolerance, ppm	Reassessed Tolerance, ppm
Asparagus	4	4
Barley, grain	6	6
Corn, field, grain	0.5	TBD
Corn, pop, grain	0.5	TBD
Cottonseed	5	TBD
Millet, grain	0.5	TBD
Oat, grain	0.5	TBD
Sorghum, grain	3	4
Sugarcane, cane	0.1	TBD
Sugarcane, molasses	2	5
Wheat, grain	2	TBD
Fat (cattle, goat, hog, horse, sheep)	0.2	0.3
Kidney (cattle, goat, hog, horse, sheep)	1.5	25
Liver (cattle, goat, hog, horse, sheep)	1.5	3
Meat (cattle, goat, hog, horse, sheep)	0.2	0.25
Meat by-products (cattle, goat, hog, horse, sheep)	0.2	3
Milk	0.3	0.2

Estimated Drinking Water Concentrations (EDWCs) were obtained from a memorandum by
Ibrahim Abdel-Saheb (5/31/05, DP Barcode D317705), and were estimated using the highest use
rate, application to sugarcane at 2.8 ai/A. Table 2 below provides a summary of the model
estimates for drinking water from surface water sources. Surface water estimates were used in
acute and chronic food and water dietary exposure assessments; in addition, a chronic food and
water analysis was conducted using the highest value found in the Pesticides in Ground Water
Database [Hoheisel et al. 1991], 40 µg/L (personal communication, Ibrahim Abdel-Saheb,
8/31/05). Note that this analysis was done for screening purposes only, and does not represent
expected concentration of dicamba in drinking water from groundwater sources.

Dicamba Dietary Exposure Assessment DP Barcode: D317702
PC Code: 029801

Table 2.	Estimated Drinking Water Concentrations to Be Used for Exposure to Dicamba Acid, and its Degradate Dichlorosalicylic Acid (DCSA) in Drinking Water					
Crop	Model EDWCs (μg/L)					
	Dicamba			DCSA		
	Acute	One-in-10-year annual mean	36 year overall mean	Acute	One-in-10-year annual mean	36 year overall mean
Surface Water						
FL-Sugarcane (Ground)	357	13	5.23	10.1	0.75	0.4
FL-Sugarcane (Aerial)	346	12.9	5.38	10.9	0.813	0.47
LA-Sugarcane (Ground)	233	9.74	3.13	8.79	0.66	0.32
LA-Sugarcane (Aerial)	230	9.74	3.44	9.74	0.73	0.39
Note that these estimates assume one application @ 2.8 lb ai/A (parent); and 0.446 lb ai/A (DCSA) and a crop area factor of 0.87						

III Program and Consumption Information

Several reasonable peer-reviewed softwares have recently been emerging for modeling dietary exposure to pesticides. For a variety of technical, historical, and availability reasons, DEEM™ was the program generally used by EPA's Office of Pesticide Programs for conducting its dietary risk assessments. With the advent and current availability of a number of other exposure software programs, OPP, registrants, and other interested parties have available to them the option of selecting other peer-reviewed exposure software in conducting risk assessments for pesticides. Dietary Exposure assessments may also be performed with other, similar programs, and if submitted, such results will be reviewed by EPA for acceptability and comparability to existing peer-reviewed software being used by OPP.

DEEM-FCID™ Program and Consumption Information

Dicamba acute and chronic dietary exposure assessments were conducted using the Dietary Exposure Evaluation Model software with the Food Commodity Intake Database (DEEM-FCID™, Version 2.03), which incorporates consumption data from USDA's Continuing Surveys of Food Intakes by Individuals (CSFII), 1994-1996 and 1998. The 1994-96, 98 data are based on the reported consumption of more than 20,000 individuals over two non-consecutive survey days. Foods "as consumed" (e.g., apple pie) are linked to EPA-defined food commodities (e.g. apples, peeled fruit - cooked; fresh or N/S; baked; or wheat flour - cooked; fresh or N/S, baked) using

Dicamba	Dietary Exposure Assessment	DP Barcode: D317702
PC Code: 029801		

publicly available recipe translation files developed jointly by USDA/ARS and EPA. For chronic exposure assessment, consumption data are averaged for the entire U.S. population and within population subgroups, but for acute exposure assessment are retained as individual consumption events. Based on analysis of the 1994-96, 98 CSFII consumption data, which took into account dietary patterns and survey respondents, HED concluded that it is most appropriate to report risk for the following population subgroups: the general U.S. population, all infants (<1 year old), children 1-2, children 3-5, children 6-12, youth 13-19, adults 20-49, females 13-49, and adults 50+ years old.

For chronic dietary exposure assessment, an estimate of the residue level in each food or food-form (e.g., orange or orange juice) on the food commodity residue list is multiplied by the average daily consumption estimate for that food/food form to produce a residue intake estimate. The resulting residue intake estimate for each food/food form is summed with the residue intake estimates for all other food/food forms on the commodity residue list to arrive at the total average estimated exposure. Exposure is expressed in mg/kg body weight/day and as a percent of the cPAD. This procedure is performed for each population subgroup.

For acute exposure assessments, individual one-day food consumption data are used on an individual-by-individual basis. The reported consumption amounts of each food item can be multiplied by a residue point estimate and summed to obtain a total daily pesticide exposure for a deterministic exposure assessment, or "matched" in multiple random pairings with residue values and then summed in a probabilistic assessment. The resulting distribution of exposures is expressed as a percentage of the aPAD on both a user (i.e., only those who reported eating relevant commodities/food forms) and a per-capita (i.e., those who reported eating the relevant commodities as well as those who did not) basis. In accordance with HED policy, per capita exposure and risk are reported for all tiers of analysis. However, for tiers 1 and 2, any significant differences in user vs. per capita exposure and risk are specifically identified and noted in the risk assessment.

IV. Toxicological Information

The toxicological endpoints used in this assessment are presented in Table 3, and were selected by the dicamba team in meetings on August 2 and August 4, 2005. The special FQPA Safety Factor has been reduced to 1 as there are no residual concerns regarding susceptibility and underestimation of exposure.

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

Table 3.	Summary of Toxicological Doses and Endpoints for Dicamba for Use in Dietary Risk Assessments		
Exposure Scenario	Dose Used in Risk Assessment, UF	Special FQPA SF* and Level of Concern for Risk Assessment	Study and Toxicological Effects
Acute Dietary (General population including infants and children	LOAEL = 300 mg/kg/day UF = 300 **Acute RfD = 1 mg/kg/day**	FQPA SF = 1X **aPAD = acute RfD / FQPA SF** = 1.0 mg/kg/day	**Acute Neurotoxicity Study in Rats** LOAEL = 300 mg/kg/day (LDT) based on clinical signs of neurotoxicity.
Chronic Dietary (All populations)	NOAEL= 45 mg/kg/day UF = 100 **Chronic RfD = 0.45 mg/kg/day**	FQPA SF = 1X **cPAD = chronic RfD / FQPA SF** = 0.45 mg/kg/day	**Multi-generation Reproduction Study in Rats** LOAEL=136 mg/kg/day based on impaired pup growth (decreased pup weights).

V.   Results/Discussion

As stated above. for acute and chronic assessments, HED is concerned when dietary risk exceeds 100% of the PAD. The DEEM-FCID™ analyses estimate the dietary exposure of the U.S. population and various population subgroups. The results are reported in Table 4 for food alone and Table 5 for exposure to food and water for the general U.S. Population, all infants (<1 year old). children 1-2, children 3-5, children 6-12, youth 13-19, females 13-49, adults 20-49. and adults 50+ years.

Results of Acute Dietary Exposure Analysis
At the 95th percentile of exposure, considering food alone the most highly exposed subgroup is Children 1-2, with 5.4%of the aPAD consumed. When considering food and water the most highly exposed subgroup is infants, with 11% of the aPAD consumed at the 95th percentile of exposure.

Results of Chronic Dietary Exposure Analysis
When considering food alone, or food and water (surface water sources), the most highly exposed subgroup is Children 1-2. with 6.5% and 6.6% of the cPAD consumed. respectively.

Table 4. Summary of Dietary Exposure and Risk for Dicamba - Food Only				
Population Subgroup*	Acute Dietary (95th Percentile)		Chronic Dietary	
	Dietary Exposure (mg/kg/day)	% aPAD*	Dietary Exposure (mg/kg/day)	% cPAD*
General U.S. Population	0.0297	3.0	0.0115	2.6

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

Table 4. Summary of Dietary Exposure and Risk for Dicamba - Food Only

Population Subgroup*	Acute Dietary (95th Percentile)		Chronic Dietary	
	Dietary Exposure (mg/kg/day)	% aPAD*	Dietary Exposure (mg/kg/day)	% cPAD*
All Infants (< 1 year old)	0.0516	5.2	0.0189	4.2
Children 1-2 years old	**0.0536**	**5.4**	**0.0292**	**6.5**
Children 3-5 years old	0.0483	4.8	0.0266	5.9
Children 6-12 years old	0.0354	3.5	0.0182	4.1
Youth 13-19 years old	0.0233	2.3	0.0111	2.5
Adults 20-49 years old	0.0214	2.1	0.00946	2.1
Adults 50+ years old	0.0150	1.5	0.00721	1.6
Females 13-49 years old	0.018	1.8	0.00843	1.9

*The population subgroup that has the most exposure is bolded.

Table 5. Summary of Dietary Exposure and Risk for Dicamba - Food and Water

Population Subgroup*	Acute Dietary (95th Percentile)		Chronic Dietary - Surface Water		Chronic Dietary - Ground Water	
	Dietary Exposure (mg/kg/day)	% aPAD*	Dietary Exposure (mg/kg/day)	% cPAD*	Dietary Exposure (mg/kg/day)	% cPAD*
General U.S. Population	0.0435	4.4	0.0118	2.6	0.0124	2.7
All Infants (< 1 year old)	**0.108**	**11**	0.0199	4.4	0.0217	4.8
Children 1-2 years old	0.0756	7.6	**0.0297**	**6.6**	**0.030**	**6.8**
Children 3-5 years old	0.0675	6.8	0.0270	6.0	0.0278	6.2
Children 6-12 years old	0.0476	4.8	0.0185	4.1	0.019	4.2
Youth 13-19 years old	0.0318	3.2	0.0113	2.5	0.0117	2.6
Adults 20-49 years old	0.0341	3.4	0.00973	2.2	0.0102	2.3
Adults 50+ years old	0.0267	2.7	0.00750	1.7	0.00804	1.8
Females 13-49 years old	0.0312	3.1	0.00870	1.9	0.00922	2.0

*The population subgroup that has the most exposure is bolded.

Dicamba
PC Code: 029801
Dietary Exposure Assessment
DP Barcode: D317702

VI. Characterization of Inputs/Outputs

Actual exposure is likely to be much lower as this assessment assumed all commodities for which dicamba is registered are treated and residues are at the tolerance level. Although additional data are needed for the reassessment of some tolerances. available data suggest that most tolerances will not need to be increased. A screening level usage analysis (M. Kaul. 9/20/04) indicate that the percent crop treated for most commodities is less than 20 %.

VII. Conclusions

HED has no residual concerns regarding exposure to dicamba in food and water. Assuming 100% crop treated and tolerance level residues, the most highly exposed sub-group is children 1-2. At the 95th percentile of exposure. acute exposure is at 7.6% of the aPAD. Chronic exposure is at 6.6% of the cPAD from when drinking water is from surface water sources, and at 6.8% using a screening estimate from ground water sources. Most of the exposure is from food.

VIII. List of Attachments

- Acute Food Only Residue Input file - General Population
- Acute Food plus Water Residue Input file - General Population
- Acute Results file - Food Only, General Population
- Acute Results file Food plus Water, General Population
- Chronic Food Only Residue Input file - General Population
- Chronic Food plus Water Residue Input file - General Population - Surface Water Sources
- Chronic Food plus Water Residue Input file - General Population - Ground Water Sources
- Chronic Results file - Food Only, General Population
- Chronic Results file Food plus Water, General Population - Surface Water Sources
- Chronic Results file Food plus Water, General Population - Ground Water Sources

cc: Colinger

ED_005172C_00001744-00009

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801
_____

Acute Food Only Residue Input file - General Population

```
"Dicamba"
 0.45
FCID1, 1
NOEL,           45   300   0
08-11-2005/11:20:58
-1  "Surface Water Tier 1"
 999  0
28  "95000190","O", 4  1  1  0 "Asparagus", ""
36  "15000250","15", 6  1  1  0 "Barley, pearled barley", ""
37  "15000251","15", 6  1  1  0 "Barley, pearled barley-babyfood", ""
38  "15000260","15", 6  1  1  0 "Barley, flour", ""
39  "15000261","15", 6  1  1  0 "Barley, flour-babyfood", ""
40  "15000270","15", 6  1  1  0 "Barley, bran", ""
60  "21000440","M", 0.25  1  1  0 "Beef, meat", ""
61  "21000441","M", 0.25  1  1  0 "Beef, meat-babyfood", ""
62  "21000450","M", 0.25  1  1  0 "Beef, meat, dried", ""
63  "21000460","M", 3  1  1  0 "Beef, meat byproducts", ""
64  "21000461","M", 3  1  1  0 "Beef, meat byproducts-babyfood", ""
65  "21000470","M", 0.3  1  1  0 "Beef, fat", ""
66  "21000471","M", 0.3  1  1  0 "Beef,fat-babyfood", ""
67  "21000480","M", 25  1  1  0 "Beef, kidney", ""
68  "21000490","M", 3  1  1  0 "Beef, liver", ""
69  "21000491","M", 3  1  1  0 "Beef, liver-babyfood", ""
161  "15001200","15", 0.5  1  1  0 "Corn, field, flour", ""
162  "15001201","15", 0.5  1  1  0 "Corn, field, flour-babyfood", ""
163  "15001210","15", 0.5  1  1  0 "Corn, field, meal", ""
164  "15001211","15", 0.5  1  1  0 "Corn, field, meal-babyfood", ""
165  "15001220","15", 0.5  1  1  0 "Corn, field, bran", ""
166  "15001230","15", 0.5  1  1  0 "Corn, field, starch", ""
167  "15001231","15", 0.5  1  1  0 "Corn, field, starch-babyfood", ""
168  "15001240","15", 0.5  1  1  0 "Corn, field, syrup", ""
169  "15001241","15", 0.5  1  1  0 "Corn, field, syrup-babyfood", ""
170  "15001250","15", 0.5  1  1  0 "Corn, field, oil", ""
171  "15001251","15", 0.5  1  1  0 "Corn, field, oil-babyfood", ""
172  "15001260","15", 0.5  1  1  0 "Corn, pop", ""
175  "95001280","O", 5  1  1  0 "Cottonseed, oil", ""
176  "95001281","O", 5  1  1  0 "Cottonseed, oil-babyfood", ""
224  "23001690","M", 0.25  1  1  0 "Goat, meat", ""
225  "23001700","M", 3  1  1  0 "Goat, meat byproducts", ""
226  "23001710","M", 0.3  1  1  0 "Goat, fat", ""
227  "23001720","M", 25  1  1  0 "Goat, kidney", ""
228  "23001730","M", 3  1  1  0 "Goat, liver", ""
249  "24001890","M", 0.25  1  1  0 "Horse, meat", ""
287  "27002220","D", 0.2  1  1  0 "Milk, fat", ""
288  "27002221","D", 0.2  1  1  0 "Milk, fat - baby food/infant formula", ""
289  "27012230","D", 0.2  1  1  0 "Milk, nonfat solids", ""
290  "27012231","D", 0.2  1  1  0 "Milk, nonfat solids-baby food/infant fo",
""
291  "27022240","D", 0.2  1  1  0 "Milk, water", ""
```

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
292 "27022241","D", 0.2  1  1   0 "Milk, water-babyfood/infant formula", ""
293 "27032251","D", 0.2  1  1   0 "Milk, sugar (lactose)-baby food/infant", ""
294 "15002260","15", 0.5  1  1   0 "Millet, grain", ""
299 "15002310","15", 0.5  1  1   0 "Oat, bran", ""
300 "15002320","15", 0.5  1  1   0 "Oat, flour", ""
301 "15002321","15", 0.5  1  1   0 "Oat, flour-babyfood", ""
302 "15002330","15", 0.5  1  1   0 "Oat, groats/rolled oats", ""
303 "15002331","15", 0.5  1  1   0 "Oat, groats/rolled oats-babyfood", ""
386 "25002900","M", 0.25  1  1   0 "Pork, meat", ""
387 "25002901","M", 0.25  1  1   0 "Pork, meat-babyfood", ""
388 "25002910","M", 0.25  1  1   0 "Pork, skin", ""
389 "25002920","M", 3  1  1   0 "Pork, meat byproducts", ""
390 "25002921","M", 3  1  1   0 "Pork, meat byproducts-babyfood", ""
391 "25002930","M", 0.3  1  1   0 "Pork, fat", ""
392 "25002931","M", 0.3  1  1   0 "Pork, fat-babyfood", ""
393 "25002940","M", 25  1  1   0 "Pork, kidney", ""
394 "25002950","M", 3  1  1   0 "Pork, liver", ""
438 "15003280","15", 2  1  1   0 "Rye, grain", ""
439 "15003290","15", 2  1  1   0 "Rye, flour", ""
453 "26003390","M", 0.25  1  1   0 "Sheep, meat", ""
454 "26003391","M", 0.25  1  1   0 "Sheep, meat-babyfood", ""
455 "26003400","M", 3  1  1   0 "Sheep, meat byproducts", ""
456 "26003410","M", 0.3  1  1   0 "Sheep, fat", ""
457 "26003411","M", 0.3  1  1   0 "Sheep, fat-babyfood", ""
458 "26003420","M", 25  1  1   0 "Sheep, kidney", ""
459 "26003430","M", 3  1  1   0 "Sheep, liver", ""
460 "15003440","15", 4  1  1   0 "Sorghum, grain", ""
461 "15003450","15", 4  1  1   0 "Sorghum, syrup", ""
463 "06003470","6", 10  1  1   0 "Soybean, seed", ""
464 "06003480","6", 10  1  1   0 "Soybean, flour", ""
465 "06003481","6", 10  1  1   0 "Soybean, flour-babyfood", ""
466 "06003490","6", 10  1  1   0 "Soybean, soy milk", ""
467 "06003491","6", 10  1  1   0 "Soybean, soy milk-babyfood or infant fo", ""
468 "06003500","6", 10  1  1   0 "Soybean, oil", ""
469 "06003501","6", 10  1  1   0 "Soybean, oil-babyfood", ""
487 "95003620","O", 0.1  1  1   0 "Sugarcane, sugar", ""
488 "95003621","O", 0.1  1  1   0 "Sugarcane, sugar-babyfood", ""
489 "95003630","O", 5  1  1   0 "Sugarcane, molasses", ""
490 "95003631","O", 5  1  1   0 "Sugarcane, molasses-babyfood", ""
540 "15004010","15", 2  1  1   0 "Wheat, grain", ""
541 "15004011","15", 2  1  1   0 "Wheat, grain-babyfood", ""
542 "15004020","15", 2  1  1   0 "Wheat, flour", ""
543 "15004021","15", 2  1  1   0 "Wheat, flour-babyfood", ""
544 "15004030","15", 2  1  1   0 "Wheat, germ", ""
545 "15004040","15", 2  1  1   0 "Wheat, bran", ""
```

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

Acute Food plus Water Residue Input file - General Population

```
"Dicamba"
 0.45
FCID1, 1
NOEL,            45   300   0
08-11-2005/11:24:58
-1  "Surface Water Tier 1"
 999   0
 28 "95000190","O",  4  1  1   0 "Asparagus", ""
 36 "15000250","15",  6  1  1   0 "Barley, pearled barley", ""
 37 "15000251","15",  6  1  1   0 "Barley, pearled barley-babyfood", ""
 38 "15000260","15",  6  1  1   0 "Barley, flour", ""
 39 "15000261","15",  6  1  1   0 "Barley, flour-babyfood", ""
 40 "15000270","15",  6  1  1   0 "Barley, bran", ""
 60 "21000440","M", 0.25  1  1   0 "Beef, meat", ""
 61 "21000441","M", 0.25  1  1   0 "Beef, meat-babyfood", ""
 62 "21000450","M", 0.25  1  1   0 "Beef, meat, dried", ""
 63 "21000460","M",  3  1  1   0 "Beef, meat byproducts", ""
 64 "21000461","M",  3  1  1   0 "Beef, meat byproducts-babyfood", ""
 65 "21000470","M", 0.3  1  1   0 "Beef, fat", ""
 66 "21000471","M", 0.3  1  1   0 "Beef,fat-babyfood", ""
 67 "21000480","M", 25  1  1   0 "Beef, kidney", ""
 68 "21000490","M",  3  1  1   0 "Beef, liver", ""
 69 "21000491","M",  3  1  1   0 "Beef, liver-babyfood", ""
 161 "15001200","15", 0.5  1  1   0 "Corn, field, flour", ""
 162 "15001201","15", 0.5  1  1   0 "Corn, field, flour-babyfood", ""
 163 "15001210","15", 0.5  1  1   0 "Corn, field, meal", ""
 164 "15001211","15", 0.5  1  1   0 "Corn, field, meal-babyfood", ""
 165 "15001220","15", 0.5  1  1   0 "Corn, field, bran", ""
 166 "15001230","15", 0.5  1  1   0 "Corn, field, starch", ""
 167 "15001231","15", 0.5  1  1   0 "Corn, field, starch-babyfood", ""
 168 "15001240","15", 0.5  1  1   0 "Corn, field, syrup", ""
 169 "15001241","15", 0.5  1  1   0 "Corn, field, syrup-babyfood", ""
 170 "15001250","15", 0.5  1  1   0 "Corn, field, oil", ""
 171 "15001251","15", 0.5  1  1   0 "Corn, field, oil-babyfood", ""
 172 "15001260","15", 0.5  1  1   0 "Corn, pop", ""
 175 "95001280","O",  5  1  1   0 "Cottonseed, oil", ""
 176 "95001281","O",  5  1  1   0 "Cottonseed, oil-babyfood", ""
 224 "23001690","M", 0.25  1  1   0 "Goat, meat", ""
 225 "23001700","M",  3  1  1   0 "Goat, meat byproducts", ""
 226 "23001710","M", 0.3  1  1   0 "Goat, fat", ""
 227 "23001720","M", 25  1  1   0 "Goat, kidney", ""
 228 "23001730","M",  3  1  1   0 "Goat, liver", ""
 249 "24001890","M", 0.25  1  1   0 "Horse, meat", ""
 287 "27002220","D", 0.2  1  1   0 "Milk, fat", ""
 288 "27002221","D", 0.2  1  1   0 "Milk, fat - baby food/infant formula", ""
 289 "27012230","D", 0.2  1  1   0 "Milk, nonfat solids", ""
 290 "27012231","D", 0.2  1  1   0 "Milk, nonfat solids-baby food/infant fo",
""
 291 "27022240","D", 0.2  1  1   0 "Milk, water", ""
 292 "27022241","D", 0.2  1  1   0 "Milk, water-babyfood/infant formula", ""
```

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
293 "27032251","D", 0.2   1  1   0 "Milk, sugar (lactose)-baby food/infant", ""
294 "15002260","15", 0.5   1  1   0 "Millet, grain", ""
299 "15002310","15", 0.5   1  1   0 "Oat, bran", ""
300 "15002320","15", 0.5   1  1   0 "Oat, flour", ""
301 "15002321","15", 0.5   1  1   0 "Oat, flour-babyfood", ""
302 "15002330","15", 0.5   1  1   0 "Oat, groats/rolled oats", ""
303 "15002331","15", 0.5   1  1   0 "Oat, groats/rolled oats-babyfood", ""
386 "25002900","M", 0.25   1  1   0 "Pork, meat", ""
387 "25002901","M", 0.25   1  1   0 "Pork, meat-babyfood", ""
388 "25002910","M", 0.25   1  1   0 "Pork, skin", ""
389 "25002920","M", 3   1  1   0 "Pork, meat byproducts", ""
390 "25002921","M", 3   1  1   0 "Pork, meat byproducts-babyfood", ""
391 "25002930","M", 0.3   1  1   0 "Pork, fat", ""
392 "25002931","M", 0.3   1  1   0 "Pork, fat-babyfood", ""
393 "25002940","M", 25   1  1   0 "Pork, kidney", ""
394 "25002950","M", 3   1  1   0 "Pork, liver", ""
438 "15003280","15", 2   1  1   0 "Rye, grain", ""
439 "15003290","15", 2   1  1   0 "Rye, flour", ""
453 "26003390","M", 0.25   1  1   0 "Sheep, meat", ""
454 "26003391","M", 0.25   1  1   0 "Sheep, meat-babyfood", ""
455 "26003400","M", 3   1  1   0 "Sheep, meat byproducts", ""
456 "26003410","M", 0.3   1  1   0 "Sheep, fat", ""
457 "26003411","M", 0.3   1  1   0 "Sheep, fat-babyfood", ""
458 "26003420","M", 25   1  1   0 "Sheep, kidney", ""
459 "26003430","M", 3   1  1   0 "Sheep, liver", ""
460 "15003440","15", 4   1  1   0 "Sorghum, grain", ""
461 "15003450","15", 4   1  1   0 "Sorghum, syrup", ""
463 "06003470","6", 10   1  1   0 "Soybean, seed", ""
464 "06003480","6", 10   1  1   0 "Soybean, flour", ""
465 "06003481","6", 10   1  1   0 "Soybean, flour-babyfood", ""
466 "06003490","6", 10   1  1   0 "Soybean, soy milk", ""
467 "06003491","6", 10   1  1   0 "Soybean, soy milk-babyfood or infant fo", ""
468 "06003500","6", 10   1  1   0 "Soybean, oil", ""
469 "06003501","6", 10   1  1   0 "Soybean, oil-babyfood", ""
487 "95003620","O", 0.1   1  1   0 "Sugarcane, sugar", ""
488 "95003621","O", 0.1   1  1   0 "Sugarcane, sugar-babyfood", ""
489 "95003630","O", 5   1  1   0 "Sugarcane, molasses", ""
490 "95003631","O", 5   1  1   0 "Sugarcane, molasses-babyfood", ""
532 "86010000","O", 0.367   1  1   0 "Water, direct, all sources", ""
533 "86020000","O", 0.367   1  1   0 "Water, indirect, all sources", ""
540 "15004010","15", 2   1  1   0 "Wheat, grain", ""
541 "15004011","15", 2   1  1   0 "Wheat, grain-babyfood", ""
542 "15004020","15", 2   1  1   0 "Wheat, flour", ""
543 "15004021","15", 2   1  1   0 "Wheat, flour-babyfood", ""
544 "15004030","15", 2   1  1   0 "Wheat, germ", ""
545 "15004040","15", 2   1  1   0 "Wheat, bran", ""
```

Dicamba	Dietary Exposure Assessment	DP Barcode: D317702
PC Code: 029801		

Acute Results file - Food Only, General Population

```
U.S. Environmental Protection Agency                      Ver. 2.02
DEEM-FCID ACUTE Analysis for DICAMBA                   (1994-98 data)
Residue file: 029801acutefoodonly.R9         Adjustment factor #2 NOT used.
Analysis Date: 08-16-2005/09:22:52   Residue file dated: 08-11-2005/11:20:58/8
NOEL (Acute) = 300.000000 mg/kg body-wt/day
Daily totals for food and foodform consumption used.
Run Comment:
===============================================================================
```

Summary calculations (per capita):

95th Percentile			99th Percentile			99.9th Percentile		
Exposure	% aRfD	MOE	Exposure	% aRfD	MOE	Exposure	% aRfD	MOE
U.S. Population:								
0.029658	2.97	10115	0.048113	4.81	6235	0.080568	8.06	3723
All infants:								
0.051640	5.16	5809	0.082725	8.27	3626	0.113474	11.35	2643
Children 1-2 yrs:								
0.053620	5.36	5594	0.077769	7.78	3857	0.424915	42.49	706
Children 3-5 yrs:								
0.048293	4.83	6212	0.068173	6.82	4400	0.351282	35.13	854
Children 6-12 yrs:								
0.035390	3.54	8476	0.049448	4.94	6067	0.070481	7.05	4256
Youth 13-19 yrs:								
0.023342	2.33	12852	0.033396	3.34	8983	0.057637	5.76	5205
Adults 20-49 yrs:								
0.021381	2.14	14031	0.034908	3.49	8593	0.068945	6.89	4351
Adults 50+ yrs:								
0.015020	1.50	19972	0.022327	2.23	13436	0.048422	4.84	6195
Females 13-49 yrs:								
0.017983	1.80	16681	0.027169	2.72	11042	0.058862	5.89	5096

Dicamba	Dietary Exposure Assessment	DP Barcode: D317702
PC Code: 029801		

```
U.S. Environmental Protection Agency                    Ver. 2.02
DEEM-FCID ACUTE Analysis for DICAMBA                (1994-98 data)
Residue file: 029801acutefoodonly.R98    Adjustment factor #2 NOT used.
Analysis Date: 08-16-2005/09:22:52  Residue file dated: 08-11-2005/11:20:58/8
NOEL (Acute) = 300.000000 mg/kg body-wt/day
Acute Reference Dose (aRfD) =   1.000000 mg/kg body-wt/day
Daily totals for food and foodform consumption used.
Run Comment:
=============================================================================
```

U.S. Population	Daily Exposure Analysis /a (mg/kg body-weight/day)	
	per Capita	per User
Mean	0.011523	0.011563
Standard Deviation	0.011072	0.011071
Standard Error of mean	0.000055	0.000055
Margin of Exposure 2/	26,034	25,945
Percent of aRfD	1.15	1.16

Percent of Person-Days that are User-Days = 99.66%

Estimated percentile of user-days falling below calculated exposure
   in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.003347	0.33	89,637	90.00	0.023078	2.31	12,999
20.00	0.004798	0.48	62,526	95.00	0.029696	2.97	10,102
30.00	0.006087	0.61	49,281	97.50	0.037133	3.71	8,078
40.00	0.007348	0.73	40,828	99.00	0.048158	4.82	6,229
50.00	0.008792	0.88	34,121	99.50	0.056715	5.67	5,289
60.00	0.010541	1.05	28,459	99.75	0.065005	6.50	4,615
70.00	0.012856	1.29	23,334	99.90	0.080633	8.06	3,720
80.00	0.016274	1.63	18,434				

Estimated percentile of per-capita days falling below calculated exposure
   in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.003299	0.33	90,938	90.00	0.023043	2.30	13,019
20.00	0.004758	0.48	63,045	95.00	0.029658	2.97	10,115
30.00	0.006057	0.61	49,532	97.50	0.037084	3.71	8,089
40.00	0.007324	0.73	40,960	99.00	0.048113	4.81	6,235
50.00	0.008765	0.88	34,228	99.50	0.056674	5.67	5,293
60.00	0.010514	1.05	28,533	99.75	0.064963	6.50	4,618
70.00	0.012831	1.28	23,380	99.90	0.080568	8.06	3,723
80.00	0.016241	1.62	18,471				

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

---

a/ Analysis based on all two-day participant records in CSFII 1994-98 survey.
2/ Margin of Exposure = NOEL/ Dietary Exposure.

All infants	Daily Exposure Analysis (mg/kg body-weight/day)	
	per Capita	per User
Mean	0.018901	0.021500
Standard Deviation	0.017036	0.016561
Standard Error of mean	0.000313	0.000323
Margin of Exposure	15,872	13,953
Percent of aRfD	1.89	2.15

Percent of Person-Days that are User-Days = 87.91%

Estimated percentile of user-days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.006522	0.65	46,000	90.00	0.041603	4.16	7,211
20.00	0.009744	0.97	30,789	95.00	0.052623	5.26	5,700
30.00	0.012276	1.23	24,437	97.50	0.068288	6.83	4,393
40.00	0.014515	1.45	20,667	99.00	0.083791	8.38	3,580
50.00	0.017124	1.71	17,519	99.50	0.096746	9.67	3,100
60.00	0.019962	2.00	15,028	99.75	0.103469	10.35	2,899
70.00	0.023984	2.40	12,508	99.90	0.113791	11.38	2,636
80.00	0.031599	3.16	9,493				

Estimated percentile of per-capita days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.000000	0.00	>1,000,000	90.00	0.039232	3.92	7,646
20.00	0.005903	0.59	50,824	95.00	0.051640	5.16	5,809
30.00	0.009820	0.98	30,548	97.50	0.065939	6.59	4,549
40.00	0.012670	1.27	23,677	99.00	0.082725	8.27	3,626
50.00	0.015125	1.51	19,835	99.50	0.094862	9.49	3,162
60.00	0.018487	1.85	16,228	99.75	0.102908	10.29	2,915
70.00	0.022182	2.22	13,524	99.90	0.113474	11.35	2,643
80.00	0.029025	2.90	10,335				

Children 1-2 yrs	Daily Exposure Analysis
	(mg/kg body-weight/day)

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
                                    per Capita     per User
                                    -----------    -----------
              Mean                    0.029231      0.029244
              Standard Deviation      0.029087      0.029086
              Standard Error of mean  0.000449      0.000449
              Margin of Exposure        10,262        10,258
              Percent of aRfD             2.92          2.92
```

Percent of Person-Days that are User-Days = 99.96%

Estimated percentile of user-days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.012671	1.27	23,675	90.00	0.046745	4.67	6,417
20.00	0.016776	1.68	17,882	95.00	0.053624	5.36	5,594
30.00	0.019952	2.00	15,035	97.50	0.061771	6.18	4,856
40.00	0.022932	2.29	13,082	99.00	0.077773	7.78	3,857
50.00	0.026228	2.62	11,438	99.50	0.102249	10.22	2,934
60.00	0.029555	2.96	10,150	99.75	0.136436	13.64	2,198
70.00	0.032930	3.29	9,110	99.90	0.424923	42.49	706
80.00	0.038208	3.82	7,851				

Estimated percentile of per-capita days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.012659	1.27	23,698	90.00	0.046739	4.67	6,418
20.00	0.016763	1.68	17,896	95.00	0.053620	5.36	5,594
30.00	0.019941	1.99	15,044	97.50	0.061763	6.18	4,857
40.00	0.022923	2.29	13,087	99.00	0.077769	7.78	3,857
50.00	0.026222	2.62	11,440	99.50	0.102245	10.22	2,934
60.00	0.029550	2.96	10,152	99.75	0.136434	13.64	2,198
70.00	0.032924	3.29	9,111	99.90	0.424915	42.49	706
80.00	0.038203	3.82	7,852				

Dicamba PC Code: 029801	Dietary Exposure Assessment	DP Barcode: D317702

```
Children 3-5 yrs                   Daily Exposure Analysis
- - - - - - - - - - - - - -        (mg/kg body-weight/day)
                                    per Capita      per User
                                   - - - - - - - - - - -  - - - - - - - - - - -
              Mean                   0.026578        0.026585
              Standard Deviation     0.018166        0.018163
              Standard Error of mean 0.000194        0.000194
              Margin of Exposure       11,287          11,284
              Percent of aRfD             2.66            2.66


        Percent of Person-Days that are User-Days =  99.98%
```

Estimated percentile of user-days falling below calculated exposure
    in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc. aRfD	Exposure MOE	% aRfD	MOE	Perc.	Exposure	%
10.00 4.12	0.012639 7,283	1.26	23,735	90.00	0.041192	
20.00 4.83	0.016298 6,211	1.63	18,407	95.00	0.048295	
30.00 5.61	0.018950 5,344	1.89	15,831	97.50	0.056129	
40.00 6.82	0.021701 4,400	2.17	13,824	99.00	0.068176	
50.00 7.94	0.024366 3,776	2.44	12,312	99.50	0.079435	
60.00 10.84	0.026916 2,766	2.69	11,145	99.75	0.108447	
70.00 35.13	0.030117 854	3.01	9,961	99.90	0.351284	
80.00	0.034625	3.46	8,664			

Estimated percentile of per-capita days falling below calculated exposure
    in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

Perc. aRfD	Exposure MOE	% aRfD	MOE	Perc.	Exposure	%
10.00	0.012630	1.26	23,752	90.00	0.041190	
4.12	7,283					
20.00	0.016293	1.63	18,413	95.00	0.048293	
4.83	6,212					
30.00	0.018946	1.89	15,834	97.50	0.056127	
5.61	5,345					
40.00	0.021697	2.17	13,826	99.00	0.068173	
6.82	4,400					
50.00	0.024362	2.44	12,314	99.50	0.079432	
7.94	3,776					
60.00	0.026914	2.69	11,146	99.75	0.108431	
10.84	2,766					
70.00	0.030114	3.01	9,962	99.90	0.351282	
35.13	854					
80.00	0.034622	3.46	8,664			

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
Children 6-12 yrs                    Daily Exposure Analysis
-------------------                  (mg/kg body-weight/day)
                                      per Capita      per User
                                     -----------    -----------
                 Mean                  0.018225       0.018228
                 Standard Deviation    0.009970       0.009968
                 Standard Error of mean 0.000154      0.000154
                 Margin of Exposure     16,460         16,457
                 Percent of aRfD          1.82           1.82

        Percent of Person-Days that are User-Days =  99.98%
```

Estimated percentile of user-days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.007798	0.78	38,469	90.00	0.029569	2.96	10,145
20.00	0.010627	1.06	28,229	95.00	0.035392	3.54	8,476
30.00	0.012776	1.28	23,481	97.50	0.040935	4.09	7,328
40.00	0.014529	1.45	20,648	99.00	0.049449	4.94	6,066
50.00	0.016714	1.67	17,948	99.50	0.058640	5.86	5,115
60.00	0.018859	1.89	15,907	99.75	0.065692	6.57	4,566
70.00	0.021542	2.15	13,926	99.90	0.070481	7.05	4,256
80.00	0.024611	2.46	12,189				

Estimated percentile of per-capita days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.007796	0.78	38,482	90.00	0.029568	2.96	10,146
20.00	0.010624	1.06	28,237	95.00	0.035390	3.54	8,476
30.00	0.012774	1.28	23,484	97.50	0.040934	4.09	7,328
40.00	0.014527	1.45	20,651	99.00	0.049448	4.94	6,067
50.00	0.016712	1.67	17,950	99.50	0.058639	5.86	5,116
60.00	0.018857	1.89	15,909	99.75	0.065691	6.57	4,566
70.00	0.021541	2.15	13,926	99.90	0.070481	7.05	4,256
80.00	0.024610	2.46	12,190				

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
Youth 13-19 yrs                      Daily Exposure Analysis
- - - - - - - - - - - - - - -        (mg/kg body-weight/day)
                                     per Capita     per User
                                     - - - - - - - - - -   - - - - - - - - - -
                 Mean                  0.011138        0.011148
                 Standard Deviation    0.006729        0.006723
                 Standard Error of mean 0.000136       0.000136
                 Margin of Exposure     26,935          26,909
                 Percent of aRfD          1.11            1.11
```

Percent of Person-Days that are User-Days = 99.90%

Estimated percentile of user-days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.004316	0.43	69,504	90.00	0.019334	1.93	15,516
20.00	0.005910	0.59	50,760	95.00	0.023349	2.33	12,848
30.00	0.007319	0.73	40,990	97.50	0.027179	2.72	11,037
40.00	0.008534	0.85	35,152	99.00	0.033399	3.34	8,982
50.00	0.009892	0.99	30,328	99.50	0.042325	4.23	7,088
60.00	0.011326	1.13	26,487	99.75	0.047213	4.72	6,354
70.00	0.013260	1.33	22,624	99.90	0.057638	5.76	5,204
80.00	0.015401	1.54	19,478				

Estimated percentile of per-capita days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.004302	0.43	69,734	90.00	0.019315	1.93	15,531
20.00	0.005899	0.59	50,851	95.00	0.023342	2.33	12,852
30.00	0.007310	0.73	41,040	97.50	0.027177	2.72	11,038
40.00	0.008527	0.85	35,183	99.00	0.033396	3.34	8,983
50.00	0.009885	0.99	30,349	99.50	0.042323	4.23	7,088
60.00	0.011322	1.13	26,496	99.75	0.047208	4.72	6,354
70.00	0.013255	1.33	22,633	99.90	0.057637	5.76	5,205
80.00	0.015396	1.54	19,485				

Dicamba	Dietary Exposure Assessment	DP Barcode: D317702
PC Code: 029801		

```
Adults 20-49 yrs                   Daily Exposure Analysis
-----------------                  (mg/kg body-weight/day)
                                   per Capita    per User
                                   -----------   -----------
            Mean                    0.009458      0.009484
            Standard Deviation      0.007193      0.007185
            Standard Error of mean  0.000074      0.000074
            Margin of Exposure        31,719        31,632
            Percent of aRfD             0.95          0.95

        Percent of Person-Days that are User-Days =  99.72%
```

Estimated percentile of user-days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.003148	0.31	95,300	90.00	0.016897	1.69	17,754
20.00	0.004531	0.45	66,205	95.00	0.021392	2.14	14,023
30.00	0.005629	0.56	53,297	97.50	0.027029	2.70	11,099
40.00	0.006783	0.68	44,228	99.00	0.034934	3.49	8,587
50.00	0.007907	0.79	37,938	99.50	0.048002	4.80	6,249
60.00	0.009275	0.93	32,343	99.75	0.058439	5.84	5,133
70.00	0.010916	1.09	27,483	99.90	0.068952	6.90	4,350
80.00	0.013096	1.31	22,908				

Estimated percentile of per-capita days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.003105	0.31	96,621	90.00	0.016879	1.69	17,773
20.00	0.004507	0.45	66,565	95.00	0.021381	2.14	14,031
30.00	0.005597	0.56	53,598	97.50	0.027008	2.70	11,107
40.00	0.006763	0.68	44,361	99.00	0.034908	3.49	8,593
50.00	0.007889	0.79	38,026	99.50	0.047915	4.79	6,261
60.00	0.009263	0.93	32,388	99.75	0.058422	5.84	5,135
70.00	0.010900	1.09	27,521	99.90	0.068945	6.89	4,351
80.00	0.013084	1.31	22,928				

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
Adults 50+ yrs                        Daily Exposure Analysis
- - - - - - - - - - - - -             (mg/kg body-weight/day)
                                        per Capita      per User
                                       - - - - - - - - - -  - - - - - - - - - - -
              Mean                       0.007210        0.007218
              Standard Deviation         0.004673        0.004670
              Standard Error of mean     0.000048        0.000048
              Margin of Exposure           41,606          41,561
              Percent of aRfD               0.72            0.72

      Percent of Person-Days that are User-Days =   99.89%
```

Estimated percentile of user-days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.002714	0.27	110,531	90.00	0.012550	1.26	23,904
20.00	0.003731	0.37	80,404	95.00	0.015023	1.50	19,968
30.00	0.004570	0.46	65,650	97.50	0.018194	1.82	16,489
40.00	0.005487	0.55	54,673	99.00	0.022341	2.23	13,428
50.00	0.006396	0.64	46,903	99.50	0.027920	2.79	10,745
60.00	0.007297	0.73	41,114	99.75	0.033991	3.40	8,825
70.00	0.008441	0.84	35,541	99.90	0.048426	4.84	6,195
80.00	0.010021	1.00	29,935				

Estimated percentile of per-capita days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.002700	0.27	111,098	90.00	0.012547	1.25	23,910
20.00	0.003724	0.37	80,562	95.00	0.015020	1.50	19,972
30.00	0.004564	0.46	65,730	97.50	0.018191	1.82	16,492
40.00	0.005481	0.55	54,732	99.00	0.022327	2.23	13,436
50.00	0.006391	0.64	46,941	99.50	0.027914	2.79	10,747
60.00	0.007293	0.73	41,135	99.75	0.033986	3.40	8,827
70.00	0.008436	0.84	35,561	99.90	0.048422	4.84	6,195
80.00	0.010017	1.00	29,950				

ED_005172C_00001744-00023

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
Females 13-49 yrs                    Daily Exposure Analysis
- - - - - - - - - - - - - - - - -    (mg/kg body-weight/day)
                                     per Capita    per User
                                     - - - - - - -  - - - - - - -
                Mean                  0.008433       0.008463
                Standard Deviation    0.005866       0.005855
                Standard Error of mean 0.000077      0.000076
                Margin of Exposure     35,575         35,448
                Percent of aRfD          0.84           0.85
```

Percent of Person-Days that are User-Days = 99.64%

Estimated percentile of user-days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.002931	0.29	102,340	90.00	0.015114	1.51	19,849
20.00	0.004209	0.42	71,274	95.00	0.017997	1.80	16,669
30.00	0.005280	0.53	56,815	97.50	0.022186	2.22	13,521
40.00	0.006239	0.62	48,080	99.00	0.027177	2.72	11,038
50.00	0.007289	0.73	41,157	99.50	0.034038	3.40	8,813
60.00	0.008404	0.84	35,698	99.75	0.044590	4.46	6,727
70.00	0.009960	1.00	30,120	99.90	0.058866	5.89	5,096
80.00	0.011838	1.18	25,343				

Estimated percentile of per-capita days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.002873	0.29	104,413	90.00	0.015100	1.51	19,867
20.00	0.004175	0.42	71,848	95.00	0.017983	1.80	16,681
30.00	0.005260	0.53	57,034	97.50	0.022157	2.22	13,539
40.00	0.006214	0.62	48,274	99.00	0.027169	2.72	11,042
50.00	0.007270	0.73	41,267	99.50	0.034011	3.40	8,820
60.00	0.008376	0.84	35,818	99.75	0.044118	4.41	6,800
70.00	0.009949	0.99	30,154	99.90	0.058862	5.89	5,096
80.00	0.011826	1.18	25,367				

Dicamba	Dietary Exposure Assessment	DP Barcode: D317702
PC Code: 029801		

Acute Results file Food plus Water, General Population

```
U.S. Environmental Protection Agency                          Ver.
2.02
DEEM-FCID ACUTE Analysis for DICAMBA                          (1994-98
data)
Residue file: 029801acutesurface.R98          Adjustment factor #2 NOT
used.
Analysis Date: 08-16-2005/09:24:01    Residue file dated:
08-11-2005/11:24:58/8
NOEL (Acute) = 300.000000 mg/kg body-wt/day
Daily totals for food and foodform consumption used.
Run Comment: "Surface Water Tier 1"
==============================================================================
=


Summary calculations (per capita):
```

	95th Percentile			99th Percentile			99.9th Percentile		
	Exposure	% aRfD	MOE	Exposure	% aRfD	MOE	Exposure	% aRfD	MOE
U.S. Population:	0.043482	4.35	6899	0.068594	6.86	4373	0.121090	12.11	2477
All infants:	0.108479	10.85	2765	0.163718	16.37	1832	0.230617	23.06	1300
Children 1-2 yrs:	0.075567	7.56	3969	0.104675	10.47	2866	0.462450	46.24	648
Children 3-5 yrs:	0.067495	6.75	4444	0.092505	9.25	3243	0.361862	36.19	829
Children 6-12 yrs:	0.047583	4.76	6304	0.066151	6.62	4535	0.098043	9.80	3059
Youth 13-19 yrs:	0.031774	3.18	9441	0.048975	4.90	6125	0.072283	7.23	4150
Adults 20-49 yrs:	0.034064	3.41	8806	0.051222	5.12	5856	0.084259	8.43	3560
Adults 50+ yrs:	0.026712	2.67	11230	0.036335	3.63	8256	0.060965	6.10	4920
Females 13-49 yrs:	0.031188	3.12	9619	0.046184	4.62	6495	0.078813	7.88	3806

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
U.S. Population                     Daily Exposure Analysis  /a
- - - - - - - - - - - - - -         (mg/kg body-weight/day)
                                     per Capita    per User
                                    - - - - - - - - -   - - - - - - - - -
               Mean                   0.019222       0.019254
               Standard Deviation     0.014164       0.014153
               Standard Error of mean 0.000070       0.000071
               Margin of Exposure 2/  15,607         15,581
               Percent of aRfD         1.92           1.93

        Percent of Person-Days that are User-Days =  99.83%
```

Estimated percentile of user-days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.007770	0.78	38,609	90.00	0.034085	3.41	8,801
20.00	0.010125	1.01	29,630	95.00	0.043509	4.35	6,895
30.00	0.012127	1.21	24,737	97.50	0.053667	5.37	5,590
40.00	0.013979	1.40	21,460	99.00	0.068641	6.86	4,370
50.00	0.015946	1.59	18,813	99.50	0.080494	8.05	3,726
60.00	0.018286	1.83	16,405	99.75	0.093292	9.33	3,215
70.00	0.021268	2.13	14,105	99.90	0.121145	12.11	2,476
80.00	0.025617	2.56	11,711				

Estimated percentile of per-capita days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.007722	0.77	38,850	90.00	0.034064	3.41	8,806
20.00	0.010092	1.01	29,727	95.00	0.043482	4.35	6,899
30.00	0.012103	1.21	24,786	97.50	0.053639	5.36	5,592
40.00	0.013962	1.40	21,487	99.00	0.068594	6.86	4,373
50.00	0.015928	1.59	18,834	99.50	0.080445	8.04	3,729
60.00	0.018267	1.83	16,423	99.75	0.093256	9.33	3,216
70.00	0.021248	2.12	14,119	99.90	0.121090	12.11	2,477
80.00	0.025594	2.56	11,721				

a/ Analysis based on all two-day participant records in CSFII 1994-98
   with 2 days of valid drinking water records.
2/ Margin of Exposure = NOEL/ Dietary Exposure.

Page 27 of 47

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
All infants                              Daily Exposure Analysis
- - - - - - - - - - -                    (mg/kg body-weight/day)
                                          per Capita      per User
                                         - - - - - - - - -   - - - - - - - - - -
                Mean                        0.044408        0.049389
                Standard Deviation          0.034784        0.033160
                Standard Error of mean      0.000642        0.000643
                Margin of Exposure            6,755           6,074
                Percent of aRfD                4.44            4.94


           Percent of Person-Days that are User-Days =  89.91%
```

Estimated percentile of user-days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.012591	1.26	23,826	90.00	0.090595	9.06	3,311
20.00	0.022535	2.25	13,312	95.00	0.110677	11.07	2,710
30.00	0.031209	3.12	9,612	97.50	0.133379	13.34	2,249
40.00	0.037633	3.76	7,971	99.00	0.164698	16.47	1,821
50.00	0.044525	4.45	6,737	99.50	0.176337	17.63	1,701
60.00	0.051506	5.15	5,824	99.75	0.222077	22.21	1,350
70.00	0.058991	5.90	5,085	99.90	0.248299	24.83	1,208
80.00	0.070806	7.08	4,236				

Estimated percentile of per-capita days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.000000	0.00	>1,000,000	90.00	0.087342	8.73	3,434
20.00	0.013409	1.34	22,373	95.00	0.108479	10.85	2,765
30.00	0.024339	2.43	12,325	97.50	0.128441	12.84	2,335
40.00	0.033519	3.35	8,950	99.00	0.163718	16.37	1,832
50.00	0.040679	4.07	7,374	99.50	0.175173	17.52	1,712
60.00	0.048374	4.84	6,201	99.75	0.194756	19.48	1,540
70.00	0.056778	5.68	5,283	99.90	0.230617	23.06	1,300
80.00	0.067377	6.74	4,452				

Page 28 of 47

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
Children 1-2 yrs                 Daily Exposure Analysis
-----------------                (mg/kg body-weight/day)
                                  per Capita     per User
                                 -----------    -----------
                 Mean             0.040760       0.040768
                 Standard Deviation    0.031869       0.031867
                 Standard Error of mean    0.000497       0.000497
                 Margin of Exposure       7,360          7,358
                 Percent of aRfD           4.08           4.08


        Percent of Person-Days that are User-Days =  99.98%
```

Estimated percentile of user-days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.019421	1.94	15,447	90.00	0.063595	6.36	4,717
20.00	0.024675	2.47	12,158	95.00	0.075570	7.56	3,969
30.00	0.028976	2.90	10,353	97.50	0.086765	8.68	3,457
40.00	0.032999	3.30	9,091	99.00	0.104679	10.47	2,865
50.00	0.036358	3.64	8,251	99.50	0.131409	13.14	2,282
60.00	0.040712	4.07	7,368	99.75	0.169777	16.98	1,767
70.00	0.045892	4.59	6,537	99.90	0.462458	46.25	648
80.00	0.052957	5.30	5,664				

Estimated percentile of per-capita days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.019412	1.94	15,454	90.00	0.063593	6.36	4,717
20.00	0.024667	2.47	12,162	95.00	0.075567	7.56	3,969
30.00	0.028970	2.90	10,355	97.50	0.086761	8.68	3,457
40.00	0.032995	3.30	9,092	99.00	0.104675	10.47	2,866
50.00	0.036354	3.64	8,252	99.50	0.131405	13.14	2,283
60.00	0.040709	4.07	7,369	99.75	0.169769	16.98	1,767
70.00	0.045887	4.59	6,537	99.90	0.462450	46.24	648
80.00	0.052953	5.30	5,665				

Page 29 of 47

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
Children 3-5 yrs                 Daily Exposure Analysis
-----------------                (mg/kg body-weight/day)
                                   per Capita    per User
                                 -----------   -----------
                Mean               0.037338      0.037338
                Standard Deviation 0.020916      0.020916
                Standard Error of mean 0.000227  0.000227
                Margin of Exposure    8,034         8,034
                Percent of aRfD        3.73          3.73


        Percent of Person-Days that are User-Days = 100.00%
```

```
     Estimated percentile of user-days falling below calculated exposure
       in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.   Exposure    % aRfD     MOE        Perc.   Exposure    % aRfD     MOE
------  ----------  -------  ----------   ------  ----------  -------  ----------
10.00   0.018867     1.89    15,900       90.00   0.057404     5.74     5,226
20.00   0.023512     2.35    12,759       95.00   0.067495     6.75     4,444
30.00   0.027268     2.73    11,001       97.50   0.077463     7.75     3,872
40.00   0.030829     3.08     9,731       99.00   0.092505     9.25     3,243
50.00   0.034402     3.44     8,720       99.50   0.112485    11.25     2,667
60.00   0.038124     3.81     7,869       99.75   0.143563    14.36     2,089
70.00   0.042397     4.24     7,076       99.90   0.361862    36.19       829
80.00   0.047863     4.79     6,267
```

```
     Estimated percentile of per-capita days falling below calculated exposure
       in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.   Exposure    % aRfD     MOE        Perc.   Exposure    % aRfD     MOE
------  ----------  -------  ----------   ------  ----------  -------  ----------
10.00   0.018867     1.89    15,900       90.00   0.057404     5.74     5,226
20.00   0.023512     2.35    12,759       95.00   0.067495     6.75     4,444
30.00   0.027268     2.73    11,001       97.50   0.077463     7.75     3,872
40.00   0.030829     3.08     9,731       99.00   0.092505     9.25     3,243
50.00   0.034402     3.44     8,720       99.50   0.112485    11.25     2,667
60.00   0.038124     3.81     7,869       99.75   0.143563    14.36     2,089
70.00   0.042397     4.24     7,076       99.90   0.361862    36.19       829
80.00   0.047863     4.79     6,267
```

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
Children 6-12 yrs                Daily Exposure Analysis
-----------------                (mg/kg body-weight/day)
                                  per Capita     per User
                                 -----------    -----------
            Mean                    0.025574       0.025574
            Standard Deviation      0.012662       0.012662
            Standard Error of mean  0.000199       0.000199
            Margin of Exposure        11,730         11,730
            Percent of aRfD             2.56           2.56

       Percent of Person-Days that are User-Days = 100.00%
```

Estimated percentile of user-days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.012360	1.24	24,271	90.00	0.040959	4.10	7,324
20.00	0.015646	1.56	19,173	95.00	0.047583	4.76	6,304
30.00	0.018344	1.83	16,354	97.50	0.055353	5.54	5,419
40.00	0.020854	2.09	14,385	99.00	0.066151	6.62	4,535
50.00	0.023546	2.35	12,741	99.50	0.075753	7.58	3,960
60.00	0.026389	2.64	11,368	99.75	0.084453	8.45	3,552
70.00	0.029310	2.93	10,235	99.90	0.098043	9.80	3,059
80.00	0.033930	3.39	8,841				

Estimated percentile of per-capita days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.012360	1.24	24,271	90.00	0.040959	4.10	7,324
20.00	0.015646	1.56	19,173	95.00	0.047583	4.76	6,304
30.00	0.018344	1.83	16,354	97.50	0.055353	5.54	5,419
40.00	0.020854	2.09	14,385	99.00	0.066151	6.62	4,535
50.00	0.023546	2.35	12,741	99.50	0.075753	7.58	3,960
60.00	0.026389	2.64	11,368	99.75	0.084453	8.45	3,552
70.00	0.029310	2.93	10,235	99.90	0.098043	9.80	3,059
80.00	0.033930	3.39	8,841				

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
Youth 13-19 yrs                    Daily Exposure Analysis
- - - - - - - - - - - - - - -      (mg/kg body-weight/day)
                                   per Capita    per User
                                   - - - - - - - - - - -   - - - - - - - - - -
                 Mean                0.016741      0.016741
                 Standard Deviation  0.009038      0.009038
                 Standard Error of mean 0.000184   0.000184
                 Margin of Exposure    17,920        17,920
                 Percent of aRfD        1.67          1.67


        Percent of Person-Days that are User-Days = 100.00%
```

Estimated percentile of user-days falling below calculated exposure
   in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.007288	0.73	41,164	90.00	0.027395	2.74	10,950
20.00	0.009782	0.98	30,668	95.00	0.031774	3.18	9,441
30.00	0.011689	1.17	25,665	97.50	0.038404	3.84	7,811
40.00	0.013429	1.34	22,340	99.00	0.048975	4.90	6,125
50.00	0.015284	1.53	19,627	99.50	0.055411	5.54	5,414
60.00	0.017114	1.71	17,529	99.75	0.060170	6.02	4,985
70.00	0.019364	1.94	15,492	99.90	0.072283	7.23	4,150
80.00	0.022707	2.27	13,211				

Estimated percentile of per-capita days falling below calculated exposure
   in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.007288	0.73	41,164	90.00	0.027395	2.74	10,950
20.00	0.009782	0.98	30,668	95.00	0.031774	3.18	9,441
30.00	0.011689	1.17	25,665	97.50	0.038404	3.84	7,811
40.00	0.013429	1.34	22,340	99.00	0.048975	4.90	6,125
50.00	0.015284	1.53	19,627	99.50	0.055411	5.54	5,414
60.00	0.017114	1.71	17,529	99.75	0.060170	6.02	4,985
70.00	0.019364	1.94	15,492	99.90	0.072283	7.23	4,150
80.00	0.022707	2.27	13,211				

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
Adults 20-49 yrs                         Daily Exposure Analysis
- - - - - - - - - - - - - - - -          (mg/kg body-weight/day)
                                          per Capita    per User
                                         - - - - - - - - -   - - - - - - - - -
                Mean                        0.016689      0.016694
                Standard Deviation          0.009779      0.009776
                Standard Error of mean      0.000101      0.000101
                Margin of Exposure           17,975        17,970
                Percent of aRfD                1.67          1.67

          Percent of Person-Days that are User-Days =  99.97%
```

```
        Estimated percentile of user-days falling below calculated exposure
           in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

   Perc.   Exposure    % aRfD      MOE        Perc.   Exposure    % aRfD      MOE
   - - - - -  - - - - - - - - - -  - - - - - - -  - - - - - - - - -  - - - - -  - - - - - - - - - -  - - - - - - -  - - - - - - - - -
   10.00    0.007257     0.73     41,341       90.00    0.027939     2.79     10,737
   20.00    0.009451     0.95     31,743       95.00    0.034067     3.41      8,806
   30.00    0.011312     1.13     26,521       97.50    0.040750     4.07      7,361
   40.00    0.012992     1.30     23,091       99.00    0.051225     5.12      5,856
   50.00    0.014700     1.47     20,408       99.50    0.064044     6.40      4,684
   60.00    0.016647     1.66     18,021       99.75    0.072140     7.21      4,158
   70.00    0.019045     1.90     15,752       99.90    0.084260     8.43      3,560
   80.00    0.022236     2.22     13,491
```

```
        Estimated percentile of per-capita days falling below calculated exposure
           in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

   Perc.   Exposure    % aRfD      MOE        Perc.   Exposure    % aRfD      MOE
   - - - - -  - - - - - - - - - -  - - - - - - -  - - - - - - - - -  - - - - -  - - - - - - - - - -  - - - - - - -  - - - - - - - - -
   10.00    0.007249     0.72     41,382       90.00    0.027937     2.79     10,738
   20.00    0.009447     0.94     31,756       95.00    0.034064     3.41      8,806
   30.00    0.011308     1.13     26,529       97.50    0.040747     4.07      7,362
   40.00    0.012989     1.30     23,096       99.00    0.051222     5.12      5,856
   50.00    0.014697     1.47     20,411       99.50    0.064041     6.40      4,684
   60.00    0.016644     1.66     18,024       99.75    0.072139     7.21      4,158
   70.00    0.019043     1.90     15,754       99.90    0.084259     8.43      3,560
   80.00    0.022234     2.22     13,492
```

Page 33 of 47

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
Adults 50+ yrs                          Daily Exposure Analysis
- - - - - - - - - - - - -               (mg/kg body-weight/day)
                                         per Capita      per User
                                        - - - - - - - - -   - - - - - - - - - -
               Mean                        0.014806        0.014810
               Standard Deviation          0.006903        0.006900
               Standard Error of mean      0.000072        0.000072
               Margin of Exposure            20,262          20,256
               Percent of aRfD                 1.48            1.48

      Percent of Person-Days that are User-Days =  99.97%
```

Estimated percentile of user-days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.007318	0.73	40,994	90.00	0.023208	2.32	12,926
20.00	0.009268	0.93	32,367	95.00	0.026713	2.67	11,230
30.00	0.010851	1.09	27,646	97.50	0.030421	3.04	9,861
40.00	0.012379	1.24	24,233	99.00	0.036338	3.63	8,255
50.00	0.013816	1.38	21,713	99.50	0.042646	4.26	7,034
60.00	0.015326	1.53	19,574	99.75	0.050665	5.07	5,921
70.00	0.017085	1.71	17,559	99.90	0.060966	6.10	4,920
80.00	0.019607	1.96	15,300				

Estimated percentile of per-capita days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.007311	0.73	41,033	90.00	0.023206	2.32	12,927
20.00	0.009264	0.93	32,381	95.00	0.026712	2.67	11,230
30.00	0.010848	1.08	27,654	97.50	0.030418	3.04	9,862
40.00	0.012377	1.24	24,238	99.00	0.036335	3.63	8,256
50.00	0.013814	1.38	21,716	99.50	0.042644	4.26	7,034
60.00	0.015323	1.53	19,578	99.75	0.050663	5.07	5,921
70.00	0.017083	1.71	17,560	99.90	0.060965	6.10	4,920
80.00	0.019606	1.96	15,301				

Page 34 of 47

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
Females 13-49 yrs                    Daily Exposure Analysis
-----------------                    (mg/kg body-weight/day)
                                     per Capita      per User
                                     ----------      ----------
              Mean                    0.015638        0.015639
              Standard Deviation      0.008737        0.008736
              Standard Error of mean  0.000114        0.000114
              Margin of Exposure        19,184          19,182
              Percent of aRfD             1.56            1.56

        Percent of Person-Days that are User-Days =  99.99%
```

Estimated percentile of user-days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.006885	0.69	43,575	90.00	0.025696	2.57	11,675
20.00	0.009002	0.90	33,324	95.00	0.031189	3.12	9,618
30.00	0.010712	1.07	28,005	97.50	0.036985	3.70	8,111
40.00	0.012383	1.24	24,227	99.00	0.046184	4.62	6,495
50.00	0.014057	1.41	21,341	99.50	0.051853	5.19	5,785
60.00	0.015843	1.58	18,936	99.75	0.067508	6.75	4,443
70.00	0.018078	1.81	16,594	99.90	0.078813	7.88	3,806
80.00	0.020925	2.09	14,337				

Estimated percentile of per-capita days falling below calculated exposure
in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.006883	0.69	43,588	90.00	0.025695	2.57	11,675
20.00	0.009001	0.90	33,331	95.00	0.031188	3.12	9,619
30.00	0.010710	1.07	28,010	97.50	0.036984	3.70	8,111
40.00	0.012381	1.24	24,229	99.00	0.046184	4.62	6,495
50.00	0.014056	1.41	21,343	99.50	0.051852	5.19	5,785
60.00	0.015842	1.58	18,937	99.75	0.067508	6.75	4,443
70.00	0.018078	1.81	16,595	99.90	0.078813	7.88	3,806
80.00	0.020923	2.09	14,337				

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

Chronic Food Only Residue Input file - General Population

```
"Dicamba"
 0.45
FCID1, 1
NOEL,            45  300   0
08-11-2005/11:21:41
-1  "Surface Water Tier 1"
 999   0
 28 "95000190","O",  4  1  1   0 "Asparagus", ""
 36 "15000250","15",  6  1  1   0 "Barley, pearled barley", ""
 37 "15000251","15",  6  1  1   0 "Barley, pearled barley-babyfood", ""
 38 "15000260","15",  6  1  1   0 "Barley, flour", ""
 39 "15000261","15",  6  1  1   0 "Barley, flour-babyfood", ""
 40 "15000270","15",  6  1  1   0 "Barley, bran", ""
 60 "21000440","M", 0.25  1  1   0 "Beef, meat", ""
 61 "21000441","M", 0.25  1  1   0 "Beef, meat-babyfood", ""
 62 "21000450","M", 0.25  1  1   0 "Beef, meat, dried", ""
 63 "21000460","M",  3  1  1   0 "Beef, meat byproducts", ""
 64 "21000461","M",  3  1  1   0 "Beef, meat byproducts-babyfood", ""
 65 "21000470","M", 0.3  1  1   0 "Beef, fat", ""
 66 "21000471","M", 0.3  1  1   0 "Beef,fat-babyfood", ""
 67 "21000480","M", 25  1  1   0 "Beef, kidney", ""
 68 "21000490","M",  3  1  1   0 "Beef, liver", ""
 69 "21000491","M",  3  1  1   0 "Beef, liver-babyfood", ""
161 "15001200","15", 0.5  1  1   0 "Corn, field, flour", ""
162 "15001201","15", 0.5  1  1   0 "Corn, field, flour-babyfood", ""
163 "15001210","15", 0.5  1  1   0 "Corn, field, meal", ""
164 "15001211","15", 0.5  1  1   0 "Corn, field, meal-babyfood", ""
165 "15001220","15", 0.5  1  1   0 "Corn, field, bran", ""
166 "15001230","15", 0.5  1  1   0 "Corn, field, starch", ""
167 "15001231","15", 0.5  1  1   0 "Corn, field, starch-babyfood", ""
168 "15001240","15", 0.5  1  1   0 "Corn, field, syrup", ""
169 "15001241","15", 0.5  1  1   0 "Corn, field, syrup-babyfood", ""
170 "15001250","15", 0.5  1  1   0 "Corn, field, oil", ""
171 "15001251","15", 0.5  1  1   0 "Corn, field, oil-babyfood", ""
172 "15001260","15", 0.5  1  1   0 "Corn, pop", ""
175 "95001280","O",  5  1  1   0 "Cottonseed, oil", ""
176 "95001281","O",  5  1  1   0 "Cottonseed, oil-babyfood", ""
224 "23001690","M", 0.25  1  1   0 "Goat, meat", ""
225 "23001700","M",  3  1  1   0 "Goat, meat byproducts", ""
226 "23001710","M", 0.3  1  1   0 "Goat, fat", ""
227 "23001720","M", 25  1  1   0 "Goat, kidney", ""
228 "23001730","M",  3  1  1   0 "Goat, liver", ""
249 "24001890","M", 0.25  1  1   0 "Horse, meat", ""
287 "27002220","D", 0.2  1  1   0 "Milk, fat", ""
288 "27002221","D", 0.2  1  1   0 "Milk, fat - baby food/infant formula", ""
289 "27012230","D", 0.2  1  1   0 "Milk, nonfat solids", ""
290 "27012231","D", 0.2  1  1   0 "Milk, nonfat solids-baby food/infant fo",
""
291 "27022240","D", 0.2  1  1   0 "Milk, water", ""
292 "27022241","D", 0.2  1  1   0 "Milk, water-babyfood/infant formula", ""
```

Page 36 of 47

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
293 "27032251","D", 0.2  1  1   0 "Milk, sugar (lactose)-baby food/infant", ""
294 "15002260","15", 0.5  1  1   0 "Millet, grain", ""
299 "15002310","15", 0.5  1  1   0 "Oat, bran", ""
300 "15002320","15", 0.5  1  1   0 "Oat, flour", ""
301 "15002321","15", 0.5  1  1   0 "Oat, flour-babyfood", ""
302 "15002330","15", 0.5  1  1   0 "Oat, groats/rolled oats", ""
303 "15002331","15", 0.5  1  1   0 "Oat, groats/rolled oats-babyfood", ""
386 "25002900","M", 0.25  1  1   0 "Pork, meat", ""
387 "25002901","M", 0.25  1  1   0 "Pork, meat-babyfood", ""
388 "25002910","M", 0.25  1  1   0 "Pork, skin", ""
389 "25002920","M", 3  1  1   0 "Pork, meat byproducts", ""
390 "25002921","M", 3  1  1   0 "Pork, meat byproducts-babyfood", ""
391 "25002930","M", 0.3  1  1   0 "Pork, fat", ""
392 "25002931","M", 0.3  1  1   0 "Pork, fat-babyfood", ""
393 "25002940","M", 25  1  1   0 "Pork, kidney", ""
394 "25002950","M", 3  1  1   0 "Pork, liver", ""
438 "15003280","15", 2  1  1   0 "Rye, grain", ""
439 "15003290","15", 2  1  1   0 "Rye, flour", ""
453 "26003390","M", 0.25  1  1   0 "Sheep, meat", ""
454 "26003391","M", 0.25  1  1   0 "Sheep, meat-babyfood", ""
455 "26003400","M", 3  1  1   0 "Sheep, meat byproducts", ""
456 "26003410","M", 0.3  1  1   0 "Sheep, fat", ""
457 "26003411","M", 0.3  1  1   0 "Sheep, fat-babyfood", ""
458 "26003420","M", 25  1  1   0 "Sheep, kidney", ""
459 "26003430","M", 3  1  1   0 "Sheep, liver", ""
460 "15003440","15", 4  1  1   0 "Sorghum, grain", ""
461 "15003450","15", 4  1  1   0 "Sorghum, syrup", ""
463 "06003470","6", 10  1  1   0 "Soybean, seed", ""
464 "06003480","6", 10  1  1   0 "Soybean, flour", ""
465 "06003481","6", 10  1  1   0 "Soybean, flour-babyfood", ""
466 "06003490","6", 10  1  1   0 "Soybean, soy milk", ""
467 "06003491","6", 10  1  1   0 "Soybean, soy milk-babyfood or infant fo", ""
468 "06003500","6", 10  1  1   0 "Soybean, oil", ""
469 "06003501","6", 10  1  1   0 "Soybean, oil-babyfood", ""
487 "95003620","O", 0.1  1  1   0 "Sugarcane, sugar", ""
488 "95003621","O", 0.1  1  1   0 "Sugarcane, sugar-babyfood", ""
489 "95003630","O", 5  1  1   0 "Sugarcane, molasses", ""
490 "95003631","O", 5  1  1   0 "Sugarcane, molasses-babyfood", ""
540 "15004010","15", 2  1  1   0 "Wheat, grain", ""
541 "15004011","15", 2  1  1   0 "Wheat, grain-babyfood", ""
542 "15004020","15", 2  1  1   0 "Wheat, flour", ""
543 "15004021","15", 2  1  1   0 "Wheat, flour-babyfood", ""
544 "15004030","15", 2  1  1   0 "Wheat, germ", ""
545 "15004040","15", 2  1  1   0 "Wheat, bran", ""
```

Page 37 of 47

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

Chronic Food plus Water Residue Input file - General Population - Surface Water Sources

```
"Dicamba"
 0.45
FCID1, 1
NOEL,              45   300   0
08-11-2005/11:11:54
-1  "Surface Water Tier 1"
 999  0
 28 "95000190","O",  4   1  1   0 "Asparagus", ""
 36 "15000250","15", 6   1  1   0 "Barley, pearled barley", ""
 37 "15000251","15", 6   1  1   0 "Barley, pearled barley-babyfood", ""
 38 "15000260","15", 6   1  1   0 "Barley, flour", ""
 39 "15000261","15", 6   1  1   0 "Barley, flour-babyfood", ""
 40 "15000270","15", 6   1  1   0 "Barley, bran", ""
 60 "21000440","M",  0.25 1  1   0 "Beef, meat", ""
 61 "21000441","M",  0.25 1  1   0 "Beef, meat-babyfood", ""
 62 "21000450","M",  0.25 1  1   0 "Beef, meat, dried", ""
 63 "21000460","M",  3   1  1   0 "Beef, meat byproducts", ""
 64 "21000461","M",  3   1  1   0 "Beef, meat byproducts-babyfood", ""
 65 "21000470","M",  0.3 1  1   0 "Beef, fat", ""
 66 "21000471","M",  0.3 1  1   0. "Beef,fat-babyfood", ""
 67 "21000480","M",  25  1  1   0 "Beef, kidney", ""
 68 "21000490","M",  3   1  1   0 "Beef, liver", ""
 69 "21000491","M",  3   1  1   0 "Beef, liver-babyfood", ""
161 "15001200","15", 0.5 1  1   0 "Corn, field, flour", ""
162 "15001201","15", 0.5 1  1   0 "Corn, field, flour-babyfood", ""
163 "15001210","15", 0.5 1  1   0 "Corn, field, meal", ""
164 "15001211","15", 0.5 1  1   0 "Corn, field, meal-babyfood", ""
165 "15001220","15", 0.5 1  1   0 "Corn, field, bran", ""
166 "15001230","15", 0.5 1  1   0 "Corn, field, starch", ""
167 "15001231","15", 0.5 1  1   0 "Corn, field, starch-babyfood", ""
168 "15001240","15", 0.5 1  1   0 "Corn, field, syrup", ""
169 "15001241","15", 0.5 1  1   0 "Corn, field, syrup-babyfood", ""
170 "15001250","15", 0.5 1  1   0 "Corn, field, oil", ""
171 "15001251","15", 0.5 1  1   0 "Corn, field, oil-babyfood", ""
172 "15001260","15", 0.5 1  1   0 "Corn, pop", ""
175 "95001280","O",  5   1  1   0 "Cottonseed, oil", ""
176 "95001281","O",  5   1  1   0 "Cottonseed, oil-babyfood", ""
224 "23001690","M",  0.25 1  1   0 "Goat, meat", ""
225 "23001700","M",  3   1  1   0 "Goat, meat byproducts", ""
226 "23001710","M",  0.3 1  1   0 "Goat, fat", ""
227 "23001720","M",  25  1  1   0 "Goat, kidney", ""
228 "23001730","M",  3   1  1   0 "Goat, liver", ""
249 "24001890","M",  0.25 1  1   0 "Horse, meat", ""
287 "27002220","D",  0.2 1  1   0 "Milk, fat", ""
288 "27002221","D",  0.2 1  1   0 "Milk, fat - baby food/infant formula", ""
289 "27012230","D",  0.2 1  1   0 "Milk, nonfat solids", ""
290 "27012231","D",  0.2 1  1   0 "Milk, nonfat solids-baby food/infant fo",
""
291 "27022240","D",  0.2 1  1   0 "Milk, water", ""
292 "27022241","D",  0.2 1  1   0 "Milk, water-babyfood/infant formula", ""
```

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
293 "27032251","D", 0.2   1   1   0 "Milk, sugar (lactose)-baby food/infant", ""
294 "15002260","15", 0.5   1   1   0 "Millet, grain", ""
299 "15002310","15", 0.5   1   1   0 "Oat, bran", ""
300 "15002320","15", 0.5   1   1   0 "Oat, flour", ""
301 "15002321","15", 0.5   1   1   0 "Oat, flour-babyfood", ""
302 "15002330","15", 0.5   1   1   0 "Oat, groats/rolled oats", ""
303 "15002331","15", 0.5   1   1   0 "Oat, groats/rolled oats-babyfood", ""
386 "25002900","M", 0.25   1   1   0 "Pork, meat", ""
387 "25002901","M", 0.25   1   1   0 "Pork, meat-babyfood", ""
388 "25002910","M", 0.25   1   1   0 "Pork, skin", ""
389 "25002920","M", 3   1   1   0 "Pork, meat byproducts", ""
390 "25002921","M", 3   1   1   0 "Pork, meat byproducts-babyfood", ""
391 "25002930","M", 0.3   1   1   0 "Pork, fat", ""
392 "25002931","M", 0.3   1   1   0 "Pork, fat-babyfood", ""
393 "25002940","M", 25   1   1   0 "Pork, kidney", ""
394 "25002950","M", 3   1   1   0 "Pork, liver", ""
438 "15003280","15", 2   1   1   0 "Rye, grain", ""
439 "15003290","15", 2   1   1   0 "Rye, flour", ""
453 "26003390","M", 0.25   1   1   0 "Sheep, meat", ""
454 "26003391","M", 0.25   1   1   0 "Sheep, meat-babyfood", ""
455 "26003400","M", 3   1   1   0 "Sheep, meat byproducts", ""
456 "26003410","M", 0.3   1   1   0 "Sheep, fat", ""
457 "26003411","M", 0.3   1   1   0 "Sheep, fat-babyfood", ""
458 "26003420","M", 25   1   1   0 "Sheep, kidney", ""
459 "26003430","M", 3   1   1   0 "Sheep, liver", ""
460 "15003440","15", 4   1   1   0 "Sorghum, grain", ""
461 "15003450","15", 4   1   1   0 "Sorghum, syrup", ""
463 "06003470","6", 10   1   1   0 "Soybean, seed", ""
464 "06003480","6", 10   1   1   0 "Soybean, flour", ""
465 "06003481","6", 10   1   1   0 "Soybean, flour-babyfood", ""
466 "06003490","6", 10   1   1   0 "Soybean, soy milk", ""
467 "06003491","6", 10   1   1   0 "Soybean, soy milk-babyfood or infant fo", ""
468 "06003500","6", 10   1   1   0 "Soybean, oil", ""
469 "06003501","6", 10   1   1   0 "Soybean, oil-babyfood", ""
487 "95003620","O", 0.1   1   1   0 "Sugarcane, sugar", ""
488 "95003621","O", 0.1   1   1   0 "Sugarcane, sugar-babyfood", ""
489 "95003630","O", 5   1   1   0 "Sugarcane, molasses", ""
490 "95003631","O", 5   1   1   0 "Sugarcane, molasses-babyfood", ""
532 "86010000","O", 0.01375   1   1   0 "Water, direct, all sources", ""
533 "86020000","O", 0.01375   1   1   0 "Water, indirect, all sources", ""
540 "15004010","15", 2   1   1   0 "Wheat, grain", ""
541 "15004011","15", 2   1   1   0 "Wheat, grain-babyfood", ""
542 "15004020","15", 2   1   1   0 "Wheat, flour", ""
543 "15004021","15", 2   1   1   0 "Wheat, flour-babyfood", ""
544 "15004030","15", 2   1   1   0 "Wheat, germ", ""
545 "15004040","15", 2   1   1   0 "Wheat, bran", ""
```

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

Chronic Food plus Water Residue Input file - General Population - Ground Water Sources

```
"Dicamba"
 0.45
FCID1, 1
NOEL,             45   300   0
08-31-2005/15:51:51
-1  "Ground Water Tier 1 revised value using monitoring"
 999  0
 28 "95000190","O",  4  1  1  0 "Asparagus", ""
 36 "15000250","15", 6  1  1  0 "Barley, pearled barley", ""
 37 "15000251","15", 6  1  1  0 "Barley, pearled barley-babyfood", ""
 38 "15000260","15", 6  1  1  0 "Barley, flour", ""
 39 "15000261","15", 6  1  1  0 "Barley, flour-babyfood", ""
 40 "15000270","15", 6  1  1  0 "Barley, bran", ""
 60 "21000440","M", 0.25 1  1  0 "Beef, meat", ""
 61 "21000441","M", 0.25 1  1  0 "Beef, meat-babyfood", ""
 62 "21000450","M", 0.25 1  1  0 "Beef, meat, dried", ""
 63 "21000460","M", 3  1  1  0 "Beef, meat byproducts", ""
 64 "21000461","M", 3  1  1  0 "Beef, meat byproducts-babyfood", ""
 65 "21000470","M", 0.3 1  1  0 "Beef, fat", ""
 66 "21000471","M", 0.3 1  1  0 "Beef,fat-babyfood", ""
 67 "21000480","M", 25 1  1  0 "Beef, kidney", ""
 68 "21000490","M", 3  1  1  0 "Beef, liver", ""
 69 "21000491","M", 3  1  1  0 "Beef, liver-babyfood", ""
 161 "15001200","15", 0.5 1  1  0 "Corn, field, flour", ""
 162 "15001201","15", 0.5 1  1  0 "Corn, field, flour-babyfood", ""
 163 "15001210","15", 0.5 1  1  0 "Corn, field, meal", ""
 164 "15001211","15", 0.5 1  1  0 "Corn, field, meal-babyfood", ""
 165 "15001220","15", 0.5 1  1  0 "Corn, field, bran", ""
 166 "15001230","15", 0.5 1  1  0 "Corn, field, starch", ""
 167 "15001231","15", 0.5 1  1  0 "Corn, field, starch-babyfood", ""
 168 "15001240","15", 0.5 1  1  0 "Corn, field, syrup", ""
 169 "15001241","15", 0.5 1  1  0 "Corn, field, syrup-babyfood", ""
 170 "15001250","15", 0.5 1  1  0 "Corn, field, oil", ""
 171 "15001251","15", 0.5 1  1  0 "Corn, field, oil-babyfood", ""
 172 "15001260","15", 0.5 1  1  0 "Corn, pop", ""
 175 "95001280","O", 5  1  1  0 "Cottonseed, oil", ""
 176 "95001281","O", 5  1  1  0 "Cottonseed, oil-babyfood", ""
 224 "23001690","M", 0.25 1  1  0 "Goat, meat", ""
 225 "23001700","M", 3  1  1  0 "Goat, meat byproducts", ""
 226 "23001710","M", 0.3 1  1  0 "Goat, fat", ""
 227 "23001720","M", 25 1  1  0 "Goat, kidney", ""
 228 "23001730","M", 3  1  1  0 "Goat, liver", ""
 249 "24001890","M", 0.25 1  1  0 "Horse, meat", ""
 287 "27002220","D", 0.2 1  1  0 "Milk, fat", ""
 288 "27002221","D", 0.2 1  1  0 "Milk, fat - baby food/infant formula", ""
 289 "27012230","D", 0.2 1  1  0 "Milk, nonfat solids", ""
 290 "27012231","D", 0.2 1  1  0 "Milk, nonfat solids-baby food/infant fo",
""
 291 "27022240","D", 0.2 1  1  0 "Milk, water", ""
 292 "27022241","D", 0.2 1  1  0 "Milk, water-babyfood/infant formula", ""
```

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

```
293 "27032251","D",  0.2  1  1   0 "Milk, sugar (lactose)-baby food/infant", ""
294 "15002260","15", 0.5  1  1   0 "Millet, grain", ""
299 "15002310","15", 0.5  1  1   0 "Oat, bran", ""
300 "15002320","15", 0.5  1  1   0 "Oat, flour", ""
301 "15002321","15", 0.5  1  1   0 "Oat, flour-babyfood", ""
302 "15002330","15", 0.5  1  1   0 "Oat, groats/rolled oats", ""
303 "15002331","15", 0.5  1  1   0 "Oat, groats/rolled oats-babyfood", ""
386 "25002900","M",  0.25 1  1   0 "Pork, meat", ""
387 "25002901","M",  0.25 1  1   0 "Pork, meat-babyfood", ""
388 "25002910","M",  0.25 1  1   0 "Pork, skin", ""
389 "25002920","M",  3    1  1   0 "Pork, meat byproducts", ""
390 "25002921","M",  3    1  1   0 "Pork, meat byproducts-babyfood", ""
391 "25002930","M",  0.3  1  1   0 "Pork, fat", ""
392 "25002931","M",  0.3  1  1   0 "Pork, fat-babyfood", ""
393 "25002940","M",  25   1  1   0 "Pork, kidney", ""
394 "25002950","M",  3    1  1   0 "Pork, liver", ""
438 "15003280","15", 2    1  1   0 "Rye, grain", ""
439 "15003290","15", 2    1  1   0 "Rye, flour", ""
453 "26003390","M",  0.25 1  1   0 "Sheep, meat", ""
454 "26003391","M",  0.25 1  1   0 "Sheep, meat-babyfood", ""
455 "26003400","M",  3    1  1   0 "Sheep, meat byproducts", ""
456 "26003410","M",  0.3  1  1   0 "Sheep, fat", ""
457 "26003411","M",  0.3  1  1   0 "Sheep, fat-babyfood", ""
458 "26003420","M",  25   1  1   0 "Sheep, kidney", ""
459 "26003430","M",  3    1  1   0 "Sheep, liver", ""
460 "15003440","15", 4    1  1   0 "Sorghum, grain", ""
461 "15003450","15", 4    1  1   0 "Sorghum, syrup", ""
463 "06003470","6",  10   1  1   0 "Soybean, seed", ""
464 "06003480","6",  10   1  1   0 "Soybean, flour", ""
465 "06003481","6",  10   1  1   0 "Soybean, flour-babyfood", ""
466 "06003490","6",  10   1  1   0 "Soybean, soy milk", ""
467 "06003491","6",  10   1  1   0 "Soybean, soy milk-babyfood or infant fo", ""
468 "06003500","6",  10   1  1   0 "Soybean, oil", ""
469 "06003501","6",  10   1  1   0 "Soybean, oil-babyfood", ""
487 "95003620","O",  0.1  1  1   0 "Sugarcane, sugar", ""
488 "95003621","O",  0.1  1  1   0 "Sugarcane, sugar-babyfood", ""
489 "95003630","O",  5    1  1   0 "Sugarcane, molasses", ""
490 "95003631","O",  5    1  1   0 "Sugarcane, molasses-babyfood", ""
532 "86010000","O",  0.04 1  1   0 "Water, direct, all sources", ""
533 "86020000","O",  0.04 1  1   0 "Water, indirect, all sources", ""
540 "15004010","15", 2    1  1   0 "Wheat, grain", ""
541 "15004011","15", 2    1  1   0 "Wheat, grain-babyfood", ""
542 "15004020","15", 2    1  1   0 "Wheat, flour", ""
543 "15004021","15", 2    1  1   0 "Wheat, flour-babyfood", ""
544 "15004030","15", 2    1  1   0 "Wheat, germ", ""
545 "15004040","15", 2    1  1   0 "Wheat, bran", ""
```

Dicamba PC Code: 029801	Dietary Exposure Assessment	DP Barcode: D317702

Chronic Results file - Food Only, General Population

```
U.S. Environmental Protection Agency                      Ver. 2.00
DEEM-FCID Chronic analysis for DICAMBA            (1994-98 data)
Residue file name: C:\MyFiles\Dicamba\Dietary\029801chronicfoodonly.R98
Adjustment factor #2 NOT used.
Analysis Date 08-11-2005/13:38:26   Residue file dated: 08-11-2005/11:21:41/8
Reference dose (RfD, Chronic) = .45 mg/kg bw/day
COMMENT 1: foodonly
==========================================================================
=
                     Total exposure by population subgroup
--------------------------------------------------------------------------
-
```

	Total Exposure	
Population Subgroup	mg/kg body wt/day	Percent of Rfd
U.S. Population (total)	0.011523	2.6%
U.S. Population (spring season)	0.011740	2.6%
U.S. Population (summer season)	0.011295	2.5%
U.S. Population (autumn season)	0.011501	2.6%
U.S. Population (winter season)	0.011569	2.6%
Northeast region	0.011189	2.5%
Midwest region	0.012163	2.7%
Southern region	0.011006	2.4%
Western region	0.011958	2.7%
Hispanics	0.011633	2.6%
Non-hispanic whites	0.011450	2.5%
Non-hispanic blacks	0.011464	2.5%
Non-hisp/non-white/non-black	0.012637	2.8%
All infants (< 1 year)	0.018901	4.2%
Nursing infants	0.006423	1.4%
Non-nursing infants	0.023638	5.3%
Children 1-6 yrs	0.026850	6.0%
Children 7-12 yrs	0.017385	3.9%
Females 13-19 (not preg or nursing)	0.009576	2.1%
Females 20+ (not preg or nursing)	0.007524	1.7%
Females 13-50 yrs	0.009031	2.0%
Females 13+ (preg/not nursing)	0.009653	2.1%
Females 13+ (nursing)	0.010010	2.2%
Males 13-19 yrs	0.012609	2.8%
Males 20+ yrs	0.009796	2.2%

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

Seniors 55+	0.007058	1.6%
Children 1-2 yrs	0.029231	6.5%
Children 3-5 yrs	0.026578	5.9%
Children 6-12 yrs	0.018225	4.1%
Youth 13-19 yrs	0.011138	2.5%
Adults 20-49 yrs	0.009458	2.1%
Adults 50+ yrs	0.007210	1.6%
Females 13-49 yrs	0.008433	1.9%

-

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

Chronic Results file Food plus Water, General Population - Surface Water Sources

```
U.S. Environmental Protection Agency                      Ver. 2.00
DEEM-FCID Chronic analysis for DICAMBA            (1994-98 data)
Residue file name: C:\MyFiles\Dicamba\Dietary\029801chronicsurface.R98
                                        Adjustment factor #2 NOT
used.
Analysis Date 08-11-2005/13:39:02    Residue file dated:
08-11-2005/11:11:54/8
Reference dose (RfD, Chronic) = .45 mg/kg bw/day
COMMENT 1: Surface Water Tier 1
======================================================================
=
                   Total exposure by population subgroup
----------------------------------------------------------------------
-
```

	Total Exposure	
Population Subgroup	mg/kg body wt/day	Percent of Rfd
U.S. Population (total)	0.011813	2.6%
U.S. Population (spring season)	0.012027	2.7%
U.S. Population (summer season)	0.011606	2.6%
U.S. Population (autumn season)	0.011782	2.6%
U.S. Population (winter season)	0.011849	2.6%
Northeast region	0.011454	2.5%
Midwest region	0.012456	2.8%
Southern region	0.011281	2.5%
Western region	0.012290	2.7%
Hispanics	0.011962	2.7%
Non-hispanic whites	0.011733	2.6%
Non-hispanic blacks	0.011739	2.6%
Non-hisp/non-white/non-black	0.012992	2.9%
All infants (< 1 year)	0.019851	4.4%
Nursing infants	0.006776	1.5%
Non-nursing infants	0.024815	5.5%
Children 1-6 yrs	0.027255	6.1%
Children 7-12 yrs	0.017648	3.9%
Females 13-19 (not preg or nursing)	0.009780	2.2%
Females 20+ (not preg or nursing)	0.007813	1.7%
Females 13-50 yrs	0.009311	2.1%
Females 13+ (preg/not nursing)	0.009935	2.2%
Females 13+ (nursing)	0.010411	2.3%

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

Males 13-19 yrs	0.012822	2.8%
Males 20+ yrs	0.010056	2.2%
Seniors 55+	0.007342	1.6%
Children 1-2 yrs	0.029662	6.6%
Children 3-5 yrs	0.026981	6.0%
Children 6-12 yrs	0.018503	4.1%
Youth 13-19 yrs	0.011347	2.5%
Adults 20-49 yrs	0.009728	2.2%
Adults 50+ yrs	0.007495	1.7%
Females 13-49 yrs	0.008702	1.9%

-

Page 45 of 47

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

Chronic Results file Food plus Water, General Population - Ground Water Sources

```
U.S. Environmental Protection Agency                        Ver. 2.00
DEEM-FCID Chronic analysis for DICAMBA                 (1994-98 data)
Residue file name: C:\MyFiles\Dicamba\Dietary\029801chronicground.R98
Adjustment factor #2 NOT used.
Analysis Date 08-31-2005/15:52:39    Residue file dated:08-31-2005/15:51:51/8
Reference dose (RfD, Chronic) = .45 mg/kg bw/day
COMMENT 1: Ground Water Tier 1 revised value using monitoring
================================================================================
                   Total exposure by population subgroup
--------------------------------------------------------------------------------
```

| | Total Exposure | |
Population Subgroup	mg/kg body wt/day	Percent of RfD
U.S. Population (total)	0.012366	2.7%
U.S. Population (spring season)	0.012575	2.8%
U.S. Population (summer season)	0.012200	2.7%
U.S. Population (autumn season)	0.012316	2.7%
U.S. Population (winter season)	0.012384	2.8%
Northeast region	0.011958	2.7%
Midwest region	0.013015	2.9%
Southern region	0.011807	2.6%
Western region	0.012924	2.9%
Hispanics	0.012590	2.8%
Non-hispanic whites	0.012272	2.7%
Non-hispanic blacks	0.012264	2.7%
Non-hisp/non-white/non-black	0.013670	3.0%
All infants (< 1 year)	0.021665	4.8%
Nursing infants	0.007448	1.7%
Non-nursing infants	0.027061	6.0%
Children 1-6 yrs	0.028028	6.2%
Children 7-12 yrs	0.018151	4.0%
Females 13-19 (not preg or nursing)	0.010169	2.3%
Females 20+ (not preg or nursing)	0.008365	1.9%
Females 13-50 yrs	0.009847	2.2%
Females 13+ (preg/not nursing)	0.010473	2.3%
Females 13+ (nursing)	0.011178	2.5%
Males 13-19 yrs	0.013230	2.9%
Males 20+ yrs	0.010552	2.3%
Seniors 55+	0.007886	1.8%
Children 1-2 yrs	0.030483	6.8%

Dicamba   Dietary Exposure Assessment   DP Barcode: D317702
PC Code: 029801

Children 3-5 yrs	0.027750	6.2%
Children 6-12 yrs	0.019034	4.2%
Youth 13-19 yrs	0.011747	2.6%
Adults 20-49 yrs	0.010245	2.3%
Adults 50+ yrs	0.008039	1.8%
Females 13-49 yrs	0.009217	2.0%

- -
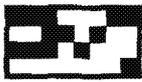
13544

R115315

Chemical:	**Dicamba**

PC Code:	029801
HED File Code	**11000 Chemistry Reviews**
Memo Date:	09/13/2005
File ID:	DPD317702
Accession Number:	412-06-0006

HED Records Reference Center
10/06/2005